

In Place of Form 1-1449 Rev. 11/01		U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/674,937
				Filing Date	September 30, 2003
				Applicant(s)	Gordon G. Sorrells, et al.
				Art Unit	2857
				Examiner Name	Donald E. McElheny, Jr.
SHEET	1	OF	2	Attorney Docket Number	35296.3

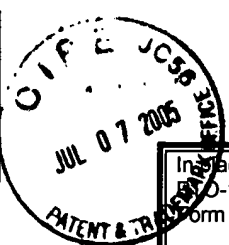
U. S. PATENT DOCUMENTS				
Examiner's Initials	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	B1	4,271,696	06/1981	Wood
	B2	4,353,244	10/1982	Wood
	B3	4,673,890	06/1987	Copland et al.
	B4	4,690,214	09/1987	Wittrisch
	B5	4,747,454	05/1988	Perryman
	B6	5,002,431	03/1991	Heymans et al.
	B7	5,040,414	08/1991	Graebner
	B8	5,417,103	05/1995	Hunter et al.
	B9	5,503,225	04/1996	Withers
	B10	5,944,446	08/1999	Hocking
	B11	6,253,870	07/2001	Tokimatsu et al.
	B12	6,370,784	04/2002	Hunter et al.
	B13	20030205375	11/2003	Wright et al.

FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Cite No.	Foreign Patent Document (Country Code - Number - Kind)	Publication Date MM-DD-YYYY	Patentee or Applicant of Cited Document	Translation Y/N
	B14	WO 00/29716	05/2000	Golder Sierra LLC	
	B15	WO 01/81724	11/2001	Pinnacle Technologies, Inc.	

OTHER PRIOR ART		
Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume-issue/number(s), publisher, city/country, where published
	B16	C. Cipola and C. Wright, Diagnostic Techniques to Understand Hydraulic Fracturing: What? Why? and How? SPE 59735, 2000 SPE/CERI Gas Technology Symposium, April 3-5 2000, Calgary, Alberta, Canada.
	B17	E. Davis, C. Wright, S. Demetrius, J. Choi, and G. Craley, Precise Tiltmeter Subsidence Monitoring Enhances Reservoir Management, SPE 62577, SPE Western Regional Conference, June 19-23 2000, Long Beach, CA.
	B18	P. Davis, Surface Deformation Associated with a Dipping Hydro fracture, Journal of Geophysical Research, Vol. 88, No. B7, 1983, pp. 5826-5834.
	B19	P. Perri, M. Emanuele, W. Fong, M. Morea, Lost Hills CO ₂ Pilot Evaluation, Design, Injectivity Test Results, and Implementation, SPE 62526, SPE Western Regional Conference, June 19-23 2000, Long Beach, CA.
	B20	L. Griffin, C. Wright, Z. Moschovidis, Tiltmeter Mapping to Monitor Drill Cuttings Disposal, presented at the 37 th US Rock Mechanics Symposium, Vail, CO, 6 - 9 June 1999.
	B21	L. Griffin, C. Wright, E. Davis, S. Wolhart, and E. Davis, Surface and Downhole Tiltmeter Mapping: An Effective Tool for Monitoring Downhole Drill Cuttings Disposal, SPE 63032, 2000 SPE Annual Technical Conference, October 1-4 2000, Dallas TX.
	B22	K. Lang, Improvements in Fracture Stimulation Technology, PTTC Network News, Vol. 7, No. 1, 1 st Quarter 2001.

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.



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	B23	Mayerhofer, M., et al; Surface Tiltmeter Mapping; XP -002176044, from SPE 59715, 2000 SPE Permian Basin Oil & Gas Recovery Conference, Midland, TX, March 21 - 23, 2000.
	B24	Nihei, Kurt T., "Natural Fracture Characterization Using Passive Seismic Illumination", January 2003.
	B25	Warpinski et al., "Improved Microseismic Fracture Mapping Using Perforation Timing Measurements for Velocity Calibration," SPE 84488, SPE Annual Technical Conference and Exhibition, October 5-8 2003, Denver, Colorado.
	B26	Warpinski et al., "Analysis and Prediction of Microseismicity Induced by Hydraulic Fracturing", SPE 71649, SPE Annual Technical Conference and Exhibition, September 3 - October 3, 2001, New Orleans, LA.
	B27	Warpinski, N. et al.; Microseismic Monitoring of the B-Sand Hydraulic-Fracture Experiment at the DOE/GRI Multisite Project, SPE Journal 4 (3), September 1999, pp. 242-250.
	B28	Wright, Chris; Tiltmeter Fracture Mapping: From the Surface and Now Downhole, Hart's Petroleum International, January 1998.
	B29	C. Wright, E. Davis, W. Minner, J. Ward, L. Weijers, E. Schell, and S. Hunter, Surface Tiltmeter Fracture Mapping reaches New Depths - 10,000 Feet, and Beyond?, SPE 39919, SPE Rocky Mountain Regional Conference, April 5 - 8, 1998, Denver, CO.
	B30	C. Wright, E. Davis, G. Golich, J. Ward, S. Demetrius, W. Minner, and L. Weijers, Downhole Tiltmeter Fracture: Finally Measuring Hydraulic Fracture Dimensions, SPE 46194, SPE Western Regional Conference, May 10-13 1998, Bakersfield, CA.
	B31	C. Wright, E. Davis, L. Weijers, Downhole Tiltmeter Fracture Mapping: A New Tool for Directly Measuring Hydraulic Fracture Dimensions, SPE 49193, 1998 SPE Annual Technical Conference and Exhibition, September 1998, New Orleans, LA.
	B32	Communication from the U.S. Patent and Trademark Office dated September 9, 2004 regarding U.S. Application No. 10/258,669.
	B33	Communication from the U.S. Patent and Trademark Office dated March 11, 2005 regarding U.S. Application No. 10/258,669.
	B34	Communication from the International Preliminary Examining Authority dated April 12, 2002 regarding International Application No. PCT/US01/13594.
	B35	Communication from the International Searching Authority dated September 13, 2001 regarding International Application No. PCT/US01/13594.
	B36	Communication from the International Searching Authority dated April 6, 2005 regarding International Application No. PCT/US04/29962.

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